Curriculum Vitae

RALPH LEWIS SACCO

PERSONAL DATA	Date of Birth	:	
	Place of Birth:		
	Office Addre	ess:	Neurological Institute 710 West 168th Street New York, New York 10032
	EMAIL Addre	ess:	
ACADEMIC TRAINING	1975-79	Cornell Univer	rsity, College of Engineering, nction, 1979
	1979-83	Boston Univer	rsity, School of Medicine, de, 1983
	1987-89	Columbia Uni M.S. Epidemio	versity, School of Public Health, ology, 1989
CLINICAL TRAINING	1983-84 1984-87	Presbyterian I	spital, N.Y., Resident Medical Service Hospital of the City of New York, N.Y. ne Neurology Service
POST-DOCTORAL TRAINING	Columbia Un 1984-86 1986-87 1987-89	Visiting Clinical Post Doctoral Clinical Neuro Post Doctoral	ege of Physicians and Surgeons al Fellow Fellow in Neurology esciences Training Grant Fellow in Neurology n and Neuroepidemiology Training Grant
ACADEMIC	Columbia Un		ege of Physicians and Surgeons
APPOINTMENTS	2002- 2001- 1998-	Professor of N in the Sergiev Director, Strok	School of Public Health leurology and Epidemiology sky Center (with tenure) se Division of the Neurovascular Center airman for Clinical Research and Training
		Department of	_
	1997-02		fessor of Neurology and Public Health in the Sergievsky Center (with tenure)
	1998-01	` '	ector of the Stroke Division,
	1993-97	Assistant Prof	essor of Neurology and Public Health in the Sergievsky Center
	1991-92		essor of Neurology and Public Health
	1989-91		essor of Neurology

APPEARS THIS WAY ON ORIGINAL

HOSPITAL	Columbia-Presbyterian Medical Center of			
APPOINTMENTS	The New-York Presbyterian Hospital			
	2002-	Attending Neurologist		
	1997-02	Associate Attending Neurologist		
	1989-97	Assistant Attending Neurologist		
	1987-89	Clinical Assistant Neurologist		
CERTIFICATION	1989	Board Certified in Neurology		
	1984	National Board of Medical Examiners		
		New York State Medical License,		
HONORS	2001	Fellow of the American Heart Association		
	1982	Sandoz Prize in Clinical Neurology		
	1981	Student Clerkship Award of the AHA Stroke Council		
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GRANT SUPPORT

Family Study of Stroke Risk and Carotid Atherosclerosis

Role: PI; Agency: NIH/NINDS; Type: R01 (NS 40807) Period: 05.01.02-04.30.07; Total Cost: \$4,465,910

Aims: The major goals of this project are to determine the hereditability and genetic linkage of various stroke

risk factors among high-risk Caribbean Hispanic families from Northern Manhattan.

Stroke Incidence and Risk Factors in a Tri-Ethnic Region

Role: PI; Agency: NIH/NINDS; Type: 2R01 (NS 29993) Period: 02.01.03-01.30.08; Total Cost: \$7,880,848 Period: 12.01.97-11.30.02; Total Cost: \$5,730,451 Period: 07.01.93-12.31.97; Total Cost: \$3,740,304

Aims: To determine the effects of risk factors including subclinical carotid and brain disease on stroke, MI and vascular death in a prospective cohort of 3298 community subjects from Northern Manhattan.

Oral Infections, Carotid Atherosclerosis and Stroke

Role: Co-PI; PI: ' ———— Agency: NIH/NIDCR; Type: 1R01 (DE 13094); Period: 07.01.00-12.31.05 Aims: To determine the effect of chronic periodontal disease and inflammation as a risk factor for stroke and carotid atheroma progression.

Arch Plaques and Stroke in an Ethnically Mixed Community

Role: Co-I; PI: ______, Agency: NIH/NINDS; Type: 1R01 (NS 36286); Period: 06.01.97-05.31.03 Aims: To determine whether aortic arch plaques are a risk factor for ischemic stroke and the association with hyperlipidemia and hypercoagulability in a case-control study.

Subclinical Cardiovascular Disease Study: MESA Field Center

Role: Co-I; PI: ——Agency: NIH/NHLBI; Type: Contract (NHLBI-HC-98-08); Period:03.01.99-08.31.07 Aims: To identify subclinical predictors of atherosclerotic disease in a multi-center prospective cohort.

Warfarin Aspirin Recurrent Stroke Study

Role: Co-PI; PI: Agency: NIH/NINDS; Type: 2R01 (NS 28371); Period: 07.01.92-06.30.03 Aims: To test warfarin vs ASA in the prevention of stroke recurrence in a randomized clinical trial.

Inflammation and Infection as Risk Factors in Stroke Role: Mentor; PI: Agency: NIH/NINDS; Type: K23 (NS 42912); Period: 01.15.02-12.31.06 Aims: This K23 award is a nested case-control study to evaluate inflammation and other infection exposures as a risk factor for ischemic stroke in the Northern Manhattan Stroke Study. An Evaluation of Intensive Education and Social Support on Blood Pressure Status Among Minority Women at 1 Year Post Stroke Role: Co-PI; PI: Agency: AHA; Type: Grant; Period: 07.01.01-06.30.03 Aims: The goals of this pilot study are to evaluate a program of education and social support for BP control post-stroke among minority women. Familial Intracranial Aneurysm Study Role: Co-l; Pl: Agency: NIH/NINDS; Type: R01 (NS 39512); Period: 07.01.02-06.30.07 Aims: This is a multicenter epidemiological family study to investigate the genetic determinants of familial intracranial aneurysms through linkage analysis. **Neuroepidemiology Training Program** Role: Co-PI; PI: Agency: NIH/NINDS; Type: T32 (NS 07153); Period: 07.01.99-06.30.04 Aims: To train neurologists in epidemiology. **Completed Research Support Epidemiologic Study of Stroke Outcome in 3 Ethnic Groups** Role: PI; Agency: NIH/NINDS; Type: 2R01 (NS 27517); Period: 09.01.89-05.31.00 Aims: To identify the risk and determinants of recurrent stroke and death in three ethnic groups in a prospective cohort study of ischemic stroke patients. Patent Foramen Ovale in Cryptogenic Stroke Study Role: Co-I; PI: NIH/NINDS; Type: 1R01 (NS 32525); Period: 09.30.94-12.31.00 Aims: To determine the effect of patent foramen ovale on stroke outcome among patients in WARSS. **Antiphospholipid Antibody Stroke Study** Role: Co-I; PI _____ Agency: NIH/NINDS; Type: 1R01 (NS 30896); Period: 04.01.96-03.31.02 Aims: To determine the effect of antiphospholipid antibodies on stroke outcome among patients in WARSS. Chronic Chlamydia Pneumoniae Infection and Stroke Risk Role: Co-I; PI — Agency: CDC; Type: R01 (CDC 99003); Period: 03.01.99-02.28.03 Aims: To determine if C. Pneumoniae is a risk factor for stroke in a population-based case-control study.

Stroke Risk and Lipoprotein (a) in a Racially Mixed Area

Patent Foramen Ovale and Stroke: A Case-Control Study

Aims: To determine whether PFO is a risk factor for ischemic stroke.

Role: Co-I; PI: Agency: NIH/NINDS; Type: R01 (NS 33248); Period:1994-97

Aims: To evaluate whether Lp(a) is a risk factor for stroke.

Glycine Antagonist in Neuroprotection

Role: PI; Agency: Glaxo-Wellcome; Type: Contract; Period: 1997-00

Aims: To evaluate the safety and efficacy of a novel neuroprotective agent after acute ischemic stroke.

Lubeluzole Acute Stroke Trial

Role: PI (local site); Agency: Janssen Pharmaceutical; Type: Contract; Period: 1995-97

Aims: To evaluate the safety and efficacy of a novel neuroprotective agent after acute ischemic stroke.

International Stroke Trial

Role: National Coordinator; PI: Agency: UK; Type: Contract; Period: 1991-97

Aims: To evaluate the efficacy of aspirin and subcutaneous heparin in the treatment of acute stroke.

Trial of Organon in Acute Stroke Therapy (TOAST)

Role: PI (local site); PI: Agency: NINDS; Type: R01 (NS 27863); Period:1990-97

Aims: To test the efficacy of heparinoids in the treatment of acute stroke.

Asymptomatic Carotid Artery Stenosis Study (ACAS)

Role: Co-I; Pl Agency: NINDS; Type: R01; Period: 1990-96

Aims: To evaluate the efficacy of endarterectomy in asymptomatic carotid stenosis

PROFESSIONAL ORGANIZATIONS

National Institute of Neurological Disorders and Stroke

2001 Stroke Program Review Group

Prevention of First and Recurrent Stroke, Co-chair

2002 Stroke Disparities Panel

Risk Factors and Mechanisms, Co-chair

Prevention of First and Recurrent Stroke, Co-chair

American Board of Psychiatry and Neurology, Inc.

2002 ABPN Part II Examinations, examiner

American Heart Association, American Stroke Association, National

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2002-	International Stroke Meeting Program Committee
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2001-	Fellow of the American Heart Association
1999-	National Spokespersons Panel
1998-01	Population Science Committee
1997	Abstract Reviewer, 70th Scientific Sessions
1996-98	Abstract Review Committee, Stroke Meeting
1990-	Fellow Stroke Council
1990-	Fellow Epidemiology Council

American Heart Association, New York City Affiliate

2000-	Chefs with Heart, Planning Committee
2000-	Leadership Committee
1999-02	Operation Stroke, Chair
1998-	Board of Directors, NYC Affiliate
1998-	Stroke Committee, Heritage Affiliate
1995-97	Council on Professional Education, NYC Affiliate
1995-99	Chairman of the Stroke Section, NYC Affiliate
1993-95	Stroke Section, NYC Affiliate

American Academy of Neurology

2003-	Foundation Research Council
2001-	Stroke Systems Task Force
1999-	Clinical Research Subcommittee, Chair
1999-	Science Committee, Member

1994-97	Scientific Program Subcommittee Topic Chair, Neuroepidemiology
1995-97	Neuroepidemiology Section, President
1995-97	Committee on Sections
1993-94	Neuroepidemiology Section, Secretary
1989-	Neuroepidemiology Section
1993-94	Quality Standards Subcommittee - Stroke Task Force
1985	Member

American Neurological Association

1998- Member

National Stroke Association

1997- Stroke Prevention Board, Executive Committee

1997- National Media Spokesperson

Other Professional Organizations

The Hazel K. Goddess Fund for Stroke Research in Women, Inc., Medical Advisory Board
 American Medical Association
 International Stroke Society
 Institute of Electrical and Electronic Engineers

COMMITTEES

Department of Neurology

1999- Clinical Research and Training Advisory Committee, Chair
 1999- Committee on Appointments and Promotions
 1991- Executive Committee, Department of Neurology
 1990- Resident Selection Committee

Columbia University, College of Physicians & Surgeons

1999- Clinical Trials Advisory Committee
1999-01 Executive Committee, Faculty Council
1998-01 Faculty Council
1991-96 Curriculum Committee,
1990-96 Major Clinical Clerkships Committee

REVIEW ACTIVITIES

Editorial Boards

2003- **Stroke**

2002- Journal of Clinical Investigation

1992- Neuroepidemiology 1998- Acta Clinica Croatica

Ad Hoc Reviewer

Stroke Neurology

Annals of Neurology Annals of Internal Medicine
JAMA New England J of Medicine

American J of Medicine
Am J of Epidemiology
J of Clinical Epidemiology
Epidemiologic Reviews
Am J of Epidemiology
Am J of Public Health
European J of Epidemiology
Cerebrovascular Diseases

European J of Epidemiology Cerebro J of Neurology, Neurosurgery and Psychiatry

Europeon Neurology Revue Neurologique

Data Safety Monitoring Boards

2001- Argatroban Stroke Study, Texas Biotechnology Corporation

1997- NINDS, Performance Safety Monitoring Board,

Vitamin Intervention Stroke Prevention Trial

1999- Parke-Davis, Pfizer, SPARCL Trial

Federal and Non-Profit Organizations

2002-	Epidemiology and Disease Control 3 Study Section
1998	Neuroscience Training Grant and Career Development
	Review Committee (NST), NINDS, AdHoc Reviewer
1998	Neurology Review Panel, Office of Orphan Products
	Development, Food and Drug Adminsitration
1992	Technical Evaluation Group, NINDS
1991-	Special and Ad Hoc Reviewer, NIH Study Sections
	Epidemiology and Disease Control
	Neurological Disorders Program Project Review A
1991	Ad Hoc Reviewer US-Israel Binational Science Found.

Pharmaceutical Advisory Panels

2002	Bayer
2001	Wyeth-Ayerst
2000	Astra-Zeneca
1997-99	Knoll Pharmaceutical
1998	Merck Pharmaceuticals
1997-98	Bristol-Myers-Squibb
1996-	Boehringer Ingelheim Pharmaceuticals
1995-	Glaxo Wellcome Consultant
1995-98	Janssen Pharmaceutica
1993-95	Syntex Laboratories

TEACHING EXPERIENCE

Trainees Training Period		Prior Academic Degree			Project Title	Current Position
		Deg	Yr	Institution		
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Pre-Doctoral	MD,	PhD	or	DrPH	Students

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1998-01	Sociomedical Sciences
1995-99	Biostatistics
1997-98	Medicine, U of Essen
1996-98	Epidemiology

Courses Taught

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Courses	raugnt
2000-03	Clinical Grant Writing, AAN Annual Meeting Dinner Seminar
1996	TIAs and Stroke, Adult Neurology for Primary Care
	Providers - Diagnosis & Treatment Issues, CPMC, NY
1996-	Ischemic Brain Attack: Update on Management and
	Prevention, Marriott Marquis, NY, Course Co-director
1996-	Pathophysiology of Stroke, Basic and Clinical
	Neurosciences, Columbia University, New York, NY
1995-	Update in Internal Medicine, Pathogenesis and
	Management of Stroke, New York, NY
1995-99	Stroke Prevention in the 1990s
	AAN Annual Half-Day Course, Course Director
1994	Consensus and Controversy: How to Manage Stroke,
	NY Hilton, Course Director
1994	Recent Advances in the Understanding and Therapy of
	Ischemic Stroke. Workshop on Stroke Clinical Trials,
	Philadelphia, PA, Course Director, December 2, 1994
1992-94	Clinical Practice Course, 1st Year Medical Students,
	Epidemiology Preceptor
1992-	Neuroepidemiology, School of Public Health,
	Bi-annual Spring Term Course, Course Co-director
1990-96	Neurology Major Clinical Clerkship, 3rd Year
	Course Director
1991	Neurology for the Non-Neurologist, Warren, PA
	Course Director

PUBLICATIONSOriginal Articles

- *1. Sacco RL, Wolf PA, Kannel WB, McNamara PL. Survival and recurrence following stroke: the Framingham Study. **Stroke** 1982;13:290-95
- *2. Sacco RL, Wolf PA, Bharucha NE, Meeks SL, Kannel WB, Charette LJ, McNamara PM, Palmer EP, D'Agostino R. Subarachnoid and intracerebral hemorrhage: natural history, prognosis, and precursive factors in the Framingham Study. **Neurol** 1984;34:847-54
- *3. Sacco RL, Bello JA, Traub RD, Brust JCM. Selective proprioceptive sensory loss from a thalamic lacunar stroke. **Stroke** 1987;18:1160-63.
- *4. Sacco RL, Foulkes MA, Mohr JP, Wolf PA, Hier DB, Price TR. Determinants of early recurrence of cerebral infarction: Stroke Data Bank. **Stroke** 1989;20:983-89
- *5. Sacco RL, Ellenberg JA, Mohr JP, Tatemichi TK, Wolf PA, Hier DB, Price TR. Infarction of Undetermined Cause: the NINCDS Stroke Data Bank. **Ann Neuro** 1989; 25:382-90
- *6. Sacco RL, Owen J, Mohr JP, Tatemichi. Free Protein S deficiency: a possible association with intracranial vascular occlusion. **Stroke** 1989;1657-61
- 7. Petty GW, Mohr JP, Pedley TA, Tatemichi TK, Lennihan L, Duterte DI, Sacco RL. The role of Transcranial doppler in confirming brain death: sensitivity, specificity, and suggestions for performance and interpretation. **Neurology** 1990;300-03
- 8. Petty GW, Tatemichi TK, Mohr JP, Duterte DI, Stein BM, Hilal SK, Sacco RL. Transcranial doppler changes after treatment for arteriovenous malformations. **Stroke** 1990;21:260-66
- 9. Petty GW, Tatemichi TK, Sacco RL, Owen J, Mohr JP. Fatal or severely disabling cerebral infarction during hospitalization for stroke or transient ischemic attack **J Neurol** 1990;237:306-09
- *10. Sacco RL, VanGool R, Mohr JP, Hauser WA. Non-traumatic coma: Glasgow coma score and coma etiology as predictors of two week outcome. **Arch Neurol** 1990;47:1181-1184
- 11. Chamorro AM, Sacco RL, Ciecierski K, Binder JR, Tatemichi TK, Mohr JP. Visual hemineglect and hemihallucinations in a patient with a subcortical infarction. **Neurology** 1990;40:1463-64
- *12. Chamorro AM, Sacco RL, Mohr JP, Foulkes MA, Case CS, Tatemichi TK, Wolf PA, Price TR, Hier DB. Lacunar Infarction: Clinical-CT Correlations in the Stroke Data Bank, **Stroke** 1991;22:175-181
- *13. Marshall R, Sacco RL, Kreuger R, Odel JG, Mohr JP. Dissociated vertical nystagmus and internuclear ophthalmoplegia in a patient with a midbrain infarction. **Arch Neurol** 1991; 48:1304-1305
- 14. Hier DB, Foulkes MA, Swiontoniowski M, Sacco RL, Gorelick PB, Mohr JP, Price TR, Wolf PA. Stroke recurrence within two years after ischemic infarction. **Stroke** 1991;22:155-161

- *15. Sacco RL, Hauser WA, Mohr JP, Foulkes MA. One year outcome after cerebral infarction in whites, blacks, and Hispanics. **Stroke** 1991;22:305-311
- *16. Massaro AR, Sacco RL, Mohr JP, Foulkes MA, Tatemichi TK, Wolf PA, Price TR, Hier DB. Clinical Discriminators between lobar and subcortical hemorrhage. **Neurol** 1991; 41:1881-1885
- *17. Sacco RL, Hauser WA, Mohr JP. Hospitalized stroke in blacks and Hispanics in northern Manhattan. **Stroke** 1991;22:1491-96
- 18. Mohr JP, Steinke W, Timsit SG, Sacco RL, Tatemichi TK. The anterior choroidal does not supply the corona radiata and lateral ventricular wall. **Stroke** 1991;22:1502-07
- *19. Timsit S, Sacco RL, Mohr JP, Foulkes MA, Tatemichi TK, Wolf PA, Price TR, Hier DB. Early clinical differentiation of Atherosclerotic and Cardioembolic Infarction: Stroke Data Bank. **Stroke** 1992;23:486-491
- *20. Steinke W, Sacco RL, Mohr JP, Foulkes MA, Wolf PA, Tatemichi TK, Price TR, Hier DB. Thalamic stroke: Presentation and prognosis of infarcts and hemorrhages. **Arch Neurol** 1992;49:703-710
- *21. Libman RB, Sacco RL, Shi T, Mohr JP. Spontaneous improvement in pure motor stroke: implications for clinical trials. **Neurol** 1992;42:1713-1716
- *22. Di Tullio MR, Sacco RL, Gopal AS, Mohr JP, Homma S. Patent foramen ovale as a risk factor for cryptogenic stroke. **Ann Int Medicine** 1992;117:461-465
- 23. Adams HP Jr, Bendixen B, Kappelle LJ, Biller J, Love B, Gordon DL, Marsh EE and the TOAST Investigators. Classification of subtype of acute ischemic stroke Definitions for use in a multicenter clinical trial. **Stroke** 1993;24:35-41
- 24. Gordon DL, Bendixen BH, Adams HP Jr, Clarke W, Kappelle LJ, Woolson RF and the TOAST Investigators. Interphysician agreement in the diagnosis of subtypes of acute ischemic stroke: implications for clinical trials. **Neurology** 1993;43:1021-27.
- *25. Mayer SA, Sacco RL, Hurlet-Jensen A, Shi T, Mohr JP. Free protein S deficiency in acute ischemic stroke: a case-control study. **Stroke** 1993;24:224-227
- *26. Di Tullio MR, Sacco RL, Massaro A, Venketasubramanian N, Sherman D, Hoffmann M, Mohr JP, Homma S. Transcranial Doppler with contrast injection for the detection of patent foramen ovale in stroke patients. **Int J Card Imaging** 1993;9:1-5
- *27. Timsit S, Sacco RL, Mohr JP, Foulkes MA, Tatemichi TK, Price TR, Hier DB, Wolf PA. Brain infarction severity differs according to cardiac or arterial embolic source: the NINDS Stroke Data Bank. **Neurology** 1993;43:728-733
- *28. Sacco RL, Freddo L, Bello JA, Odel JG, Onesti ST, Mohr JP. Lateral medullary syndrome of Wallenberg: clinical-magnetic resonance imaging correlations. **Arch Neurol** 1993;50:609-614
- *29. Hoffmann M, Sacco RL, Chan S, Mohr JP. Non-invasive detection of vertebral artery dissection. **Stroke** 1993;24:815-819
- *30. Di Tullio MR, Sacco RL, Venketasubramanian N, Sherman D, Mohr JP, Homma S. Comparison of diagnostic techniques for the detection of patent foramen ovale in stroke patients. **Stroke** 1993;24:1020-1024

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- *31. Venketasubramanian N, Sacco RL, Di Tullio MR, Sherman D, Homma S, Mohr JP. Vascular distribution of paradoxical emboli by Transcranial Doppler. **Neurology** 1993;43:1533-1535
- *32. Massaro AR, Hoffman MA, Sacco RL, Di Tullio MR, Homma S, Mohr JP. Detection of paradoxical cerebral embolism using transcranial Doppler in a patient with infarct of undetermined cause. **Cerebrovasc Dis** 1993;3:116-119
- *33. Hoffmann M, Sacco RL, Mohr JP, Buda J. Cerebroappendicular embolism: simultaneous brachial plexopathy and middle cerebral artery embolism. **Neurology** 1993;43:620-621
- *34. Sacco RL, Shi T, Zamanillo MC, Kargman D. Predictors of mortality and recurrence after hospitalized cerebral infarction in an urban community: the Northern Manhattan Stroke Study. **Neurology** 1994;44:626-634
- *35. Homma S, Di Tullio M, Sacco RL, Mihalatos D, Li Mandri GL, Mohr JP. Characteristics of patent foramen associated with cryptogenic stroke: a biplane transesophageal contrast study. **Stroke** 1994;25:582-586
- 36. Foulkes MA, Sacco RL, Mohr JP, Hier DB, Price TR, Wolf PA. Parametric modeling of stroke recurrence. **Neuroepidemiology** 1994;13:19-27
- 37. Fisher M, Jonas S, Sacco RL. Prophylactic neuroprotection for cerebral ischemia. **Stroke** 1994;25:1075-1080
- 38. Mayer SA, Sacco RL, Shi T, Mohr JP. Neurological deterioration in noncomatose patients with supratentorial intracerebral hemorrhage. **Neurology** 1994;44:1379-1384
- *39. Sacco RL. Interactions between stroke data banks and clinical trials. **Neuroepidemiology** 1994;13:275-282
- *40. Libman RB, Sacco RL, Shi T, Correll JW, Mohr JP. Outcome after carotid endarterectomy for asymptomatic carotid stenosis. **Surg Neurol** 1994;41:443-449
- *41. Sacco RL, Kargman DE, Gu Q, Zamanillo MC. Race-ethnicity and determinants of intracranial atherosclerotic cerebral infarction: the Northern Manhattan Stroke Study. **Stroke** 1995;26:14-20
- *42. Mast H, Thompson JLP, Lee SH, Mohr JP, Sacco RL. Hypertension and diabetes as determinants of multiple lacunar infarcts. **Stroke** 1995;26:30-33
- *43. Sacco RL, Kargman DE, Zamanillo MC. Race-ethnic differences in stroke risk factors among hospitalized patients with cerebral infarction: the Northern Manhattan Stroke Study. **Neurology** 1995;45:659-663
- *44. Louis ED, King D, Sacco RL, Mohr JP. Upper motor neuron signs in acute stroke: prevalence, interobserver reliability, and timing of initial examination. **J Stroke Cerebrovasc Dis** 1995;5:49-55
- 45. Chimowitz MI, Kokkinos J, Strong J, Brown MB, Levine SR, Silliman S, Pessin MS, Weichel E, Sila CA, Furlan AJ, Kargman DE, Sacco RL, Wityk RJ, Ford G, Fayad PB, for the Warfarin-Aspirin Symptomatic Intracranial Disease Study Group. The Warfarin-Aspirin Symptomatic Intracranial Disease Study.

 Neurology 1995;45:1488-93

- 46. Aviv JE, Martin JH, Sacco RL, Zagar D, Garber M, Huang W, Keen MS, Blitzer A. Supraglottic and pharyngeal sensory abnormalities in stroke patients with dysphagia. **Ann Otol Rhinol Laryngol** 1996;105:92-97
- 47. Di Tullio MR, Sacco RL, Gersony D, Nayak H, Weslow RG, Kargman DE, Homma S. Aortic atheromas and acute ischemic stroke: a transesophageal echocardiographic study in an ethnically mixed population. **Neurology** 1996; 46;1560-1566
- 48. International Stroke Trial Pilot Study Collaborative Group. Study design of the International Stroke Trial (IST), baseline data, and outcome in 984 randomised patients in the pilot study. **J Neurol Neurosurg Psychiatry** 1996;60:371-376
- 49. Ravalli S, LiMandri G, Di Tullio MR, Marboe CC, Boxt L, Sacco RL, Schwartz A, Homma S. Intravascular ultrasound imaging of human cerebral arteries. **J Neuroimaging** 1996; 6:71-5
- 50. Hoffmann M, Sacco RL, Mohr JP, Tatemichi TK. Higher cortical function deficits among acute stroke patients: the Stroke Data Bank experience. **J Stroke Cerebrovasc Dis** 1997;6:114-120
- 51. The WARSS, APASS, PICSS, and HAS Study Groups. The feasibility of a collaborative double-blind study using an anticoagulant: the Warfarin-Aspirin Recurrent Stroke Stduy (WARSS), the Antiphospholipid Antibodies and Stroke Study (APASS), the Patent Foramen Ovale in Cryptogenic Stroke Study (PICSS), an the Hemostatic System Activation Study (HAS). **Cerebrovasc Dis** 1997;7:100-112
- *52. Sacco RL, Roberts JK, Boden-Albala B, Gu Q, Lin IF, Kargman DE, Berglund L, Hauser WA, Shea S, Paik M. Race-Ethnicity and Determinants of Carotid Atherosclerosis in a Multi-Ethnic Population: The Northern Manhattan Stroke Study. **Stroke** 1997;28:929-935
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- 159. Boden-Albala BM, Evers SK, Cheng JF, Rundek T, Elkind MS, Santiago MM, Sacco RL. Stroke Outcomes after Stroke: Findings from the Northern Manhattan Stroke Study. **Stroke** 2002;33:352.
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- 163. Wright CB, Rundek T, Pittman JG, Boden-Albala B, Kaplan ED, Sacco RL. A Cross-Sectional Analysis of Vascular Risk Factors and Cognitive Status in a Multiethnic Elderly Population, **Neurology** 2002
- 164. Schumacher HC, Rundek T, Boden-Albala B, Mohr JP, Sacco RL. Predictors of Needing Help for Basic ADL Functions at 6 Months Following Acute Ischemic Stroke: The Northern Manhattan Stroke Study, **Neurology** 2002
- 165. Kaplan ED, Pittman JG, Elkind MS, Boden-Albala B, Wright CB, Rundek T, Stabler SP, Sacco RL. Homocysteine Is Associated with Increased Vascular Morbidity and Mortality: The Northern Manhattan Prospective Cohort Study, **Neurology** 2002
- 166. Boden-Albala B, Sacco RL, Pittman JP, Elkind MS, Rundek T, Berglund L. The Relationship between High Density Lipoprotein and Vascular Outcomes in a Multi-Ethnic Community: The Northern Manhattan Prospective Cohort Study, **Neurology** 2002
- 167. Elkind MS, Pittman JG, Boden-Albala B, Rundek T, Sacco RL. Moderate Alcohol Consumption Reduces Risk of Ischemic Stroke and Death: The Northern Manhattan Prospective Cohort Study, **Neurology** 2002

SELECTED PRESENTATIONS

Epidemiological Assessment of Survival and Recurrence Following Stroke: The Framingham Study. National Student Research Forum. Galveston, TX, April, 1981.

Early Recurrence of Ischemic Infarct: The NINCDS Stroke Data Bank. 11th International Joint Conference on Stroke and Cerebral Circulation. San Francisco, CA, February, 1986.

Reclassification of Acute Stroke with Non-diagnostic CT and Angiogram: Infarction of Undetermined Cause in the NINCDS Stroke Data Bank. American Neurological Association. Boston, MA, October, 1986.

Protein S Deficiency and Intracranial Vascular Occlusion. American Neurological Association. San Francisco, CA, October, 1987.

Determinants of Early Recurrence of Cerebral Infarction: Stroke Data Bank. 13th International Joint Conference on Stroke and Cerebral Circulation. San Diego, CA, February, 1988.

Cross-Cultural Differences in Outcome after Cerebral Infarction. 14th International Joint Conference on Stroke and Cerebral Circulation. San Antonio, TX, February, 1989.

Stroke Recurrence. Neurology Grand Rounds University of Miami. Miami, FL, March, 1989.

Two week outcome of non-traumatic coma: etiology and initial Glasgow Coma score. American Academy of Neurolgy, Chicago, IL, April, 1989

Predictors of one year outcome in 30-day survivors of cerebral infarction. 114th Annual Meeting of the Neurological Association, New Orleans, LA, September 24-27, 1989

Ethnic Differences in Cerebral Infarction Subtype. 114th Annual Meeting of the Neurological Association, New Orleans, LA, September 24-27, 1989

Cryptogenic Cerebral Infarction. Neurology Grand Rounds University of Medicine and Dentistry of New Jersey, East Orange and New Brunswick, NJ, November 1, 1989

New Medical Therapies for Acute Cerebral Infarction. Medical Grand Rounds. Roosevelt Hospital, New York, NY, December 23, 1989

Hospitalized Cerebral Infarction in Blacks and Hispanics in Northern Manhattan. 42nd Annual meeting of the American Academy of Neurolgy, Miami, FL, April, 1990

What Causes Ischemic Stroke? How many are undetermined? and Calcium Channel Blockers in Ischemic Stroke? Toronto Stroke Workshop, Toronto, Canada, September 13, 1990

Recurrent stroke; Risk factors for ischemic stroke; Utilization of Neurological data bases. 14th Brazilian Congress of Neurology, Rio de Janeiro, Brazil, September 22 to 27, 1990

New Medical Therapies for Acute Cerebral Infarction. Neurology Grand Rounds. Lincoln Hospital, New York, NY, April 10, 1991

Non-Hypertensive Stroke: Northern Manhattan Stroke Study. 43rd Annual meeting of the American Academy of Neurolgy, Boston, MA, April, 1991

Stroke risk factors in Hispanics with cerebral infarction: the Northern Manhattan Stroke Study. 116th Annual Meeting of the American Neurological Association, Seattle, WA, October, 1991

Stroke Recurrence Determinants. Neurology Grand Rounds, Saint Vincents Hospital Center, New York, NY, February, 1992.

New Medical Therapies for Prevention of Cerebral Infarction. Medical Grand Rounds. Beth Israel Hospital, New York, NY, February 20, 1992

Epidemiology of Stroke. Management of Cerebral Vascular Disease Course. New York, N.Y. March 20-21, 1992

Diagnosis and Management of Non-Atherosclerotic Vasculopathies. 44th Annual Meeting of the American Academy Cerebrovascular Disease Course. San Diego, CA, May 3, 1992

Multiple Risk Factors as a Determinant of Stroke Recurrence: The Northern Manhattan Stroke Study. 44th Annual Meeting of the American Academy of Neurology. San Diego, CA, May 3-9, 1992

Predictors of Patent Foramen Ovale in Young Stroke Patients. 44th Annual Meeting of the American Academy of Neurology. San Diego, CA, May 3-9, 1992

Cardiac and Transcardiac Sources of Embolic Stroke. Stroke World Congress, International Stroke Society. Stroke Diagnosis and Treatment Course. Washington, DC, Sept 08-12, 1992.

Predictors of Stroke Recurrence. Stroke World Congress, International Stroke Society. Stroke Diagnosis and Treatment Course. Washington, DC, September 08-12, 1992.

Antithrombotic and Antiplatelet Therapy in the Prevention of Stroke. Prevention of Stroke. UMDNJ-Robert Wood Johnson Medical School, New Brunswick, NJ, Sept 30, 1992.

Ethanol Abuse as a Determinant of Stroke Recurrence: Northern Manhattan Stroke Study. 45th Annual Meeting of the American Academy of Neurology, New York, NY, April 25-May 1, 1993

Standard Drug Therapies: Aspirin, Warfarin. 45th Annual Meeting of the American Academy of Neurology, Clinical Trials: Ways to Reduce Stroke Risk - Do they really work? New York, NY, April 25-May 1, 1993

Interactions of Stroke Data Banks and Clinical Trials. Challenging Issues in Stroke Data Bank Research. Pre-Congress Satellite Workshop, Geneva, Switzerland, May 12, 1993

Predictors of Mortality and Recurrence after Cerebral Infarction. 2nd International Conference on Stroke, Geneva, Switzerland, May 12-15, 1993

Risk Factors and Outcomes for Ischemic Stroke. 2nd International IBC Symposium. Recent Advances in the Diagnosis, Prevention and Treatment of Ischemic Stroke. Philadelphia, PA, July 14-15, 1993

Determinants of Intracranial Atherosclerotic Stroke: the Northern Manhattan Stroke Study. 19th International Joint Conference on Stroke and Cerebral Circulation. San Diego, CA, February, 1994

Inadequate Self-Modification of Stroke Risk Factors: The Northern Manhattan Stroke Study. 46th Annual Meeting of the American Academy of Neurology, Washington, D.C., May 1-7, 1994

Prevention of Ischemic Stroke. Annual Meeting of the Florida Association for the Study of Headache, West Palm Beach, FL, May 14, 1994

New Therapies for the Prevention of Ischemic Stroke. Annual Meeting of the Western NY Society for the Long-term Care of Stroke, Buffalo, NY, May 25, 1994

The Role of Antiplatelets and Anticoagulants in Stroke Prevention. National Medical Association, Orlando, FL, July 27, 1994

Threatened Stroke: Spotlight on Prevention. American Academy of Family Practioners, Satellite Symposium, Boston, MA, September 21, 1994

The Heart as a Source of Embolism. Cardiology Autumn Workshops & Seminars. Columbia-Presbyterian Medical Center, New York, NY, September 24, 1994

Risk Factor Modification in Clinical Trials for Ischemic Stroke Prevention. New Strategies to Prevent Neural Damage from Ischemic Stroke, Boston, MA, October 27-28, 1994

New Treatment Options for Ischemic Stroke. Risk Factors and Stroke Prevention. University of Puerto Rico Grand Rounds, San Juan, PR, April 5-6, 1995

Prevention of Ischemic Stroke: Update '95. Annual Meeting of the Florida Association for the Study of Headache, West Palm Beach, FL, May 18, 1995

Stroke Prevention. Brooklyn Neurological Association. Brooklyn, NY, May 23, 1995

Cardiac Explanations for Cryptogenic Stroke. Third International Conference on Stroke: Heart and Brain. Prague, Czech Republic, October 18-21, 1995

Stroke Classification and Type-specific Antithrombotic Therapy. Platelets 1995: Vascular Risk, Problems and Solutions, Universita degli Studi, Milan, Italy, November 17, 1995

Stroke Prevention: Epidemiological Issues. Stroke - Second Hudson Valley Conference. Westchester County Medical Center, Valhalla, NY, November 29, 1995

New Risk Factors and Treatments for Ischemic Stroke. Northshore Medical Center. December 8, 1995

Management of Acute Ischemic Stroke. Northwest Covenant Medical Center. Denville, New Jersey. February 06, 1996

New Risk Factors for Ischemic Stroke: Insights from the Northern Manhattan Stroke Study. Neurology Grand Rounds, Albert Einstein College of Medicine, February 21, 1996

New Risk Factors and Treatments for Ischemic Stroke. Neurology Grand Rounds, Long Island Jewish Medical Center, March 20, 1996

Lipid as a Stroke Risk Factor. Taiwan Annual National Neurological Meeting, April 13, 1996 New Risk Factors for Stroke, National Taiwan Hospital, April 15, 1996 and Veterans Hospital, April 15, 1996

New Treatments for the Prevention of Ischemic Stroke. Sarasota Memorial Hospital, May 10, 1996

Hypertension and the Risk of Brain Attack. Eleventh Annual Meeting of the American Society of Hypertension, New York, NY, May 16, 1996

Pathophysiology and Treatment of Stroke, Update in Internal Medicine, New York, NY, August 05, 1996

Interactions between Data Banks and Clinical Trials, Health Care Delivery in Acute Stroke: Structure and Cost Containment Course, at Joint 3rd World Stroke Congress and 5th European Stroke Conference, Munich, Germany, September 1-5, 1996

Risk Factors, Subtypes and Outcomes for Ischemic Stroke. Advances in Stroke Management, Aspen, Colorado, September 27-October 01, 1996

New Treatments in the Prevention and Reversal of Ischemic Stroke. Riverview Medical Center, Redbank, New Jersey, October 23, 1996

New Cardiac Explanations of Cryptogenic Stroke. Boston Stroke Society, Boston, MA, November 6, 1996

Epidemiology of Stroke: Insights from the Northern Manhattan Stroke Study. Neurology Grand Rounds, Massachusetts General Hospital, November 7, 1996

Epidemiology of Stroke: Role of Racial and Ethnic Differences, Cardiovascular Seminar of the Council on Stroke and Kidney Disease, American Heart Association, 69th Scientific Session, New Orleans, LA, November 11-13, 1996

Modification of Risk Factors in the Prevention of Stroke. Neurosurgery NYC 1996, 20th Annual Post-Graduate Course, New York City, December 9-11, 1996

Prevention and Treatment of Ischemic Stroke: Antiplatelets and Anticoagulants and Treatment of Acute Cardiovascular Events - Ischemic Stroke. Third Symposium of Cardiology of Sao Paulo: Thrombosis, Thrombolytics, Anticoagulants and Antiplatelet Agents, Sao Paulo, Brazil, February 28-March 01, 1997

New Cardiac Risk Factors for Ischemic Stroke, University of Sao Paulo, Department of Neurology, Sao Paulo, Brazil, March 03, 1997

Stroke Prevention: Evidence from Secondary Prevention Studies. Clinical Epidemiology and Stroke Prevention Course. Meeting of the European Federation of Neurological Societies, Prague, Czech Republic, June 4-8, 1997

The Northern Manhattan Stroke Project: Insights Regarding Stroke Epidemiology. Neurology Grand Rounds, Danube University, Landesnervenklinik Gugging, Vienna, Austria, June 2, 1997

Prevention of Ischemic Stroke. The Rodney Bell Lecture in Cerebrovascular Disease, Jefferson Medical School, Philadelphia, PA, November 7, 1997

Stroke Prevention in 1997: Recognition and Modification, The Tenth Annual Joseph A. Provenzano Lecture Award, Fairfax Medical Center, Fairfax, Virginia, December 16, 1997

Stroke Therapy - The Year in Review, New Concepts in Stroke Prevention. Satellite Symposium at the AHA 23rd International Joint Conference on Stroke and Cerebral Circulation, Orlando, Florida, February 7, 1998

Modification of Stroke Risk Factors. 4th International Conference on Stroke and 1st Conference of the Mediterranean Stroke Society. Marrakech, Morroco, March 4-7, 1998

Risk of Stroke in Various Ethnic Groups and Women. Stroke Prevention and Management: New and Emerging Approaches. The National Hypertension Association and The National Stroke Association. New York, NY, March 12, 1998

Risk Factors for Stroke. Department of Neurology, Rejkevik, Iceland, March 22-24, 1998

Research in the Detection and Modification of Risk Factors for the Prevention of Ischemic Stroke. The 21st Princeton Conference. St. Louis, Missouri, May 7-10, 1998

Stroke Prevention - Focus on Cholesterol. The 38th Annual Turkish Neurology Congress, Borgas, Turkey, September 25, 1998

Outcomes after stroke and stroke subtypes. Advances in Stroke Management - Third Annual Meeting. Crete, Greece, October 3-4, 1998

Secondary Prevention of Stroke - an American Perspective. The Spanish National Neurological Society. Barcelona, Spain, December 15-17, 1998

New Antiplatelet Therapy for Stroke Prevention. Puerto Rico Neurological Society. San Juan, Puerto Rico, February 20, 1999

Stroke Risk Factors: Focus on Hypercholesterolemia. Hong Kong Neurological Society. Hong Kong, China, March 10-12, 1999

New Cardiac Risk Factors for Ischemic Stroke: PFO, Atrial Septal Aneurysm and Aortic Arch Atheroma, Medical College of Georgia Visiting Professor, Department of Neurology, Augusta, Georgia, March 18, 1999

Is Cholesterol a Risk factor for Stroke? Satellite Symposium, Europeon Stroke Conference, Venice, Italy, April 8, 1999

New Risk Factors for Stroke. Fourth Annual Advances in Stroke Management. Sardinia, Italy, September 25-26, 1999

Stroke Risk Factors. Southern Medical Association. Birmingham, AL, October 7, 1999.

Stroke Prevention in the Next Millenium. Bay Area Stroke Society, Palo Alto, CA, December 9, 1999

TIA as a Risk Factor. TIA Summit, Telluride, CO, January 14, 2000.

Stroke Epidemiology. AHA Stroke Conference Satellite Meeting - Year in Review. New Orleans, LA, February 12, 2000

Stroke Prevention in the Next Millenium. Philadelphia Neurological Society, Philadelphia, PA, February 23, 2000

Academic Perspectives in the Design of Acute Stroke Trials. Stroke Trials Academic Industry Research Conference, Palo Alto, CA, March 9-10, 2000

Stroke Epidemiology and Prevention. Neuroepidemiology Course. Erice, Sicily, Italy, March 16, 2000

Stroke Prevention Course for Stroke Fellows. Course Director. San Juan, PR, April 7-9, 2000

Stroke Prevention and Management: New and Emerging Approaches for the Millennium. National Hypertension Association and National Stroke Association Seminar. New York, NY, May 15-16, 2000

Stroke in New York City. Stroke Symposium 2000. NY Hospital Medical Center of Queens and the AHA. NY, NY, October 20, 2000

Stroke Risk Factors. Stroke Fellows Forum. Palm Beach, FL, October 25-26, 2000

Stroke Prevention. New Jersey Neurological Society. West Orange, NJ, January 10, 2001

New Approaches to Stroke Prevention. Montefiore Medical Center Neurology Grand Rounds, January 24, 2001

Stroke Risk factors – the Year in Review, Satellite Symposium at the AHA Stroke Meeting. Ft. Lauderdale, FL, February 14, 2001

Risk Factors for Stroke: Current Concepts; Risk factors for Stroke: Lifestyle Factors. Heart & Brain. 5th International Conference on Stroke and 2nd Conference of the Mediterranean Stroke Society. Istanbul, Turkey, March 21-24, 2001

Stroke Prevention. Visiting Professor at Hahneman Medical College. Philadelphia, PA, April 18, 2001.

New Approaches to Stroke Prevention. Westchester Medical Center Medical Grand Rounds, June 6, 2001

Reducing the risk of Stroke in Diabetes: What Have we Learned that's new. Metabolic Syndrome and Type 2 Diabetes – The Need to Reduce Cardiovascular Events. Satellite Symposium at the American Diabetes Association, June 21, 2001

Update on Stroke Prevention. University of Kentucky, Lexington, KY, September 27-28, 2001

Stroke in NYC. Spanish Medical Society, NY, NY, October 8, 2001

Stroke: Who's at Risk? Symposium on Stroke in Women. The Society for Women's Health Research and The Hazel K. Goddess Fund for Stroke Research in Women, Washington, DC, October 23, 2001

Management of Carotid Stenosis. Westchester Neurological Society. Mt Kisco, NY, November 12, 2001

Stroke Prevention: Insights from the Northern Manhattan Stroke Study. Neurology Grand Rounds, Yale University, New Haven, CT, November 20, 2001

New Insights on Stroke Prevention. Neurology Grand Rounds, Long Island Jewish Medical Center, NY, NY, November 28, 2001

Stroke Update. International Update on Neurology and Neurosurgery. Columbia University, NY, NY, November 30, 2001

Stroke Prevention: Latest Update. Stroke Symposium. Indiannapolis, IN, December 14, 2001

Stroke Prevention in 2001. Medical Grand Rounds, St Vincents Medical Center, December 21, 2001

Stroke Risk Factors, Stroke Fellowship Forum, Phoenix, AZ, January 18, 2002

New Insights on Stroke Prevention. Neurology Grand Rounds, NJ Neurological Institute, Edison, NJ, January 23, 2002

Update on Stroke Risk Factors. Stroke Speakers Training Program. Aventura, FL, January 25, 2002

Stroke Risk factors – the Year in Review, Satellite Symposium at the AHA Stroke Meeting. San Antonio, TX, February 9, 2002

Stroke in Minorities. AHA Symposium at the AHA Scientific Sessions 2002, Chicago, IL, November 17-20, 2002

Update: Risk and Prevention of Stroke in Women. American Stroke Association 28th International Stroke Conference. Phoenix, Arizona, February 13-15, 2003

Lipids and other Emerging Risk Factors. 6th International Conference on Stroke and the 3rd Conference of the Mediterranean Stroke Society. Monte Carlo, Monaco, March 12-15, 2003

Carotid Endarterectomy vs Stenting. Plenary Discussant, Contemporary Clinical Issues, 55th Annual Meeting of the American Academy of Neurology, Honolulu, Hawaii, March 29-April 5, 2003

Press Releases

Strokes Hit African-Americans Harder, AHA News Release, December 16, 1991

Patent Foramen Ovale and Stroke, National Medical Association News, March/April 1992

Stroke in Blacks and Hispanics, CBS Radio, December, 1992

Alcohol May be a Risk Factor for Stroke Recurrence, AAN News Release, April 27, 1993

Stroke in the Young, CBS News, November 25, 1993

Non-compliance, CBS Evening News, November 28, 1993

Risk Factors for Stroke, NY 1 News, February 10, 1994

Near Death Experience, American Journal, February 15, 1994

Stroke in the Young, Channel 5 Evening News, March 18, 1994

Diabetes, High Cholesterol More Important than Race in Determining Risk of Stroke, AHA News Release, February 18, 1994

Educational Programs Needed to Reduce Stroke Recurrence, AAN News Release, May 5, 1994

Gender Differences in Brain Function, Channel 2 Evening News, March 14, 1995

Stroke, Channel 9 News, June 7, 1995

Stroke, Ask the Experts, Channel 2 News, February 7, 1996

Physical Activity and Stroke, AAN News Release, February 9, 1996

Stroke and Milk Consumption, WABC Channel 7 News, May 6, 1996

Stroke is an Emergency, Newsworthy, October 26-29, 1996

Acute Stroke Therapies. NBC News, December 12, 1996

Stroke, Health Update, Fox News, February 1, 1997

Alcohol and Stroke Risk, AHA News Release, February 7, 1997

NSA Public Stroke Prevention Guidelines, March 12, 1998

Neuroprotection, NBC News, April 21, 1998

Alcohol and Stroke, JAMA, January 6, 1999

Stroke Prevention, NBC Today Show, October 6, 1999

Stroke Media Tour, May 2002

Stroke, Fox5 News, May 14, 2002

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